

CLAIMS:

What is claimed is:

- 1 1. A method comprising:
 - 2 determining a first integration time for a first color channel;
 - 3 determining a second integration time for a second color channel, where the
 - 4 second integration time is shorter than the first integration time;
 - 5 dividing the second integration time into a set of integration times;
 - 6 integrating a first sensor over the first integration time; and,
 - 7 integrating a second sensor over the set of integration times.
- 1 2. The method of claim 1, where dividing the second integration time into the set of
- 2 integration times includes dividing the second integration time by a predetermined
- 3 number to generate the set of integration times, where a sum of all integration times in
- 4 the set of integration time equals the second integration time.
- 1 3. The method of claim 1, where integrating the second sensor over the set of
- 2 integration times includes integrating the second sensor over each of the set of integration
- 3 times.
- 1 4. The method of claim 3, where integrating the second sensor over each of the set
- 2 of integration times includes generating a set of sample signals to the second sensor,
- 3 where each sample signal in the set of sample signals corresponds to a respective
- 4 integration time in the set of integration times.

1 5. The method of claim 1, where the set of integration times are dispersed
2 throughout the first integration time.

1 6. An article comprising a computer readable medium having instructions stored
2 thereon, which when executed, causes:

3 determination of a first integration time for a first color channel;
4 determination of a second integration time for a second color channel, where the
5 second integration time is shorter than the first integration time;
6 division of the second integration time into a set of integration times;
7 integration of a first sensor over the first integration time; and,
8 integration of a second sensor over the set of integration times.

1 7. The article of claim 6, where division of the second integration time into the set of
2 integration times includes division of the second integration time by a predetermined
3 number to generate the set of integration times, where a sum of all integration times in
4 the set of integration time equals the second integration time.

1 8. The article of claim 6, where integration of the second sensor over the set of
2 integration times includes integration of the second sensor over each of the set of
3 integration times.

1 9. The article of claim 8, where integration of the second sensor over each of the set
2 of integration times includes generation of a set of sample signals to the second sensor,
3 where each sample signal in the set of sample signals corresponds to a respective
4 integration time in the set of integration times.

1 10. The article of claim 6, where the set of integration times are dispersed throughout
2 the first integration time.

1 11. An apparatus comprising:

2 an image sensor having a first sensor for a first color channel and a second sensor
3 for a second color channel; and,

4 an control unit coupled to the image sensor, the control unit having:

5 a integration time generation unit;

6 a first color channel pulse generation unit coupled to the first sensor;

7 a first duty cycle register coupled to the first color channel pulse
8 generation unit;

9 a second color channel pulse generation unit coupled to the second sensor;
10 and,

11 a second duty cycle register coupled to the second color channel pulse
12 generation unit;

13 where the first color channel pulse generation unit generates a set of sample signals to the
14 first sensor based on a value contained in the first duty cycle register.

1 12. The apparatus of claim 11, where the second color channel pulse generation unit
2 generates a second set of sample signals to the second sensor based on a second value
3 contained in the second duty cycle register.

1 13. The apparatus of claim 11, where the set of sample signals are a set of pulses
2 having a duty cycle based on the value contained in the first duty cycle register.

1 14. The apparatus of claim 11, further comprising a signal processing unit coupled to
2 the first image sensor to receive an output.

1 15. The apparatus of claim 14, where the signal processing unit receives a set of
2 sampled signals from the first sensor based on the set of sample signals and is configured
3 to combine the set of sampled signals into a single output.